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Mini Review

Structural and Functional Stability and Asymmetry Among Organelles and Organs Appears Regulated by The Specific Genes and Stem Cells. II: A Concept of Stem- Genes in Specific Stem Cells

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Abstract

Background

This communication is based on elaboration of the two superb and immortal statements, one by E B Wilson in 1925, "Every individual is a cell or has been a cell" and another by Raspail in 1939: "Omnis cellule e cellule: Cells come from preexisting cells". This is well established that the final product of the fertilization is the Zygote, a single cell in all eukaryotes which after subsequent series of development and cell divisions becomes a cluster of many cells. Due to inherent molecular activities and differentiation some of the cells become "stem cells". Certainly genes activated within stem cells are selective ones for specialized functions.

Hypothesis: It is at this stage when specific stem cells among several stem cells are destined to control many molecular functions of regulating inter genic and intrachromosomal events which are directly related with genomic evolutionary strategies. Certainly there have to be very specific genes for very kind of stem cells.

Result: Even if cells to begin with are multipotent the distribution of genes among differentiating stem cells has to be very selective. Stem cells are of three kinds (stagnant stem cells, mobile or circulating stem cells and Intragenomic stem cell) but the genes being distributed among these cells have to be very selective and even different. Stem cells regulating intrachromosomal molecular (natural aberrations, repairing and conservation mechanisms) events have to be absent in other types of stem cells.

Keywords: Omnis Cellule e cellule, Molecular Activities, Ophioglossum

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